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2 **In the claims:**

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4 1 (Currently amended) A device, comprising:

5 an input fiber to guide an input optical beam;

6 a stationary reflector having a reflective surface

7 that is partially transmissive to light, said reflector

8 positioned to reflect a part of the input optical beam at

9 said reflective surface as a reflected optical beam and to

10 transmit a part of the input optical beam as a transmitted

11 optical beam;

12 an output fiber adjacent to said input fiber, said

13 output fiber positioned to receive and guide the reflected

14 optical beam as an output optical beam;

15 an optical detector positioned to receive the

16 transmitted optical beam and to produce a detector output;

17 a magnetic field substantially axial to said input of

18 said output optical fiber;

19 a variable optical attenuator positioned in an optical

20 path between said reflective surface and one of said input

21 and said output fibers to attenuate light in response to a

22 control signal;

23 said variable optical attenuator comprising a movable

24 shutter placed between said input or said output fiber and

1 said stationary reflector, said movable shutter interacting
2 with said optical beam, said movable shutter supported by a
3 current carrying wire;

4 said variable optical attenuator having a maximum
5 attenuation when said shutter is in the path of said
6 optical beam;

7 whereby said magnetic field and a magnetic field
8 produced by said current carrying wire interact, thereby
9 causing a movement of said movable shutter.

10

11 2 (Original) The device as in claim 1, wherein said
12 variable optical attenuator is positioned to attenuate the
13 input optical beam incident to said reflective surface, and
14 wherein the detector output indicates a power level of the
15 output optical beam.

16

17 3 (Withdrawn) The device as in claim 1, wherein said
18 variable optical attenuator is positioned to attenuate the
19 reflected optical beam, and wherein the detector output
20 indicates a power level of the input optical beam.

21

22 4 (Cancelled)

23

1 5 (Withdrawn) The device as in claim 1, wherein said
2 variable optical attenuator attenuates light by scattering
3 light.

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6 6 (Original) The device as in claim 1, wherein said
7 variable optical attenuator attenuates light by reflecting
8 light.

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10 7 (Cancelled)

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12 8 (original) The device as in claim 1, further
13 comprising a housing to hold said optical detector, said
14 reflector, said variable optical attenuator, said input and
15 said output fibers as an integrated package.

16

17 9 (original) The device as in claim 8, said housing
18 has a first end to hold said optical detector and said
19 reflector, and a second, opposing end to hold said input
20 and said output fibers.

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22 10 - 12 (Cancelled)

23

24 13 (Previously amended) A device, comprising:

1 a housing having a first end and a second opposing
2 end;
3 an optical detector engaged to said first end;
4 a stationary collimator lens having a flat end lens
5 facet in said housing to face said optical detector and to
6 transmit a fraction of light to said optical detector;
7 a magnet in said housing to produce a magnetic field;
8 a capillary body being in said housing to hold input
9 and output fibers that exit said housing at said second
10 opposing end and having an end facet facing said collimator
11 lens to expose end facets of said input and output fibers
12 to said collimator lens and to the magnetic field, wherein
13 said collimator is configured and spaced from said end
14 facet of said capillary body to collimate light from one
15 fiber and to focus reflected light by said flat end lens
16 facet to another fiber;
17 a conductive wire movably fixed to said capillary body
18 to have a wire portion across said end facet of said
19 capillary body, said wire movable along said end facet when
20 an electric current is supplied to said wire to interact
21 with said magnetic field; and
22 a shutter engaged to said wire portion and movable
23 along with said wire to intercept a beam that is either

1 output by said input fiber or received by said output fiber
2 to attenuate the beam.

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4 14 (withdrawn) The device as in claim 13, wherein said
5 shutter scatters the beam when intercepting the beam.

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7 15 (withdrawn) The device as in claim 13, wherein said
8 shutter absorbs the beam when intercepting the beam.

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10 16 (original) The device as in claim 13, wherein said
11 shutter reflects the beam when intercepting the beam.

12

13 17 (original) The device as in claim 13, further
14 comprising first and second adhesive pads on sides surfaces
15 of said capillary body to bond two parts of said wire to
16 said capillary body as pivot points for motion of said
17 wire.

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19 18 (original) The device as in claim 17, wherein said
20 adhesive pads are elastic and soft to reduce effects of
21 mechanical shocks and vibrations to said wire and said
22 shutter.

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1 19 (original) The device as in claim 18, wherein said
2 adhesive pads are made of an epoxy.

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4 20 (original) The device as in claim 13, further
5 comprising a control unit the controls the electric
6 current in said wire in response to an output of said
7 optical detector.

8

9 21 (original) The device as in claim 13, wherein said
10 collimator lens is a GRIN lens.

11

12 22 (withdrawn) The device as in claim 13, wherein said
13 collimator lens is a C lens.

14

15 23 (original) The device as in claim 13, wherein said
16 flat end lens facet is coated with a reflective coating
17 that is partially transmissive.

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19 24 (withdrawn) The device as in claim 13, further
20 comprising a partially transmissive mirror engaged to said
21 flat end lens facet.